

INDIAN SCHOOL AL WADI AL KABIR

Class: XI	Department: SCIENCE 2020 -2021 SUBJECT : Engineering Graphics	Date of submission: 07.05.2020
Worksheet No:1 With answers	Topic: - RECTILINEAR FIGURES	Note: A4 FILE FORMAT
NAME	CLASS & SEC.	ROLL NO.

- 1.Divide a straight-line AB, proportionate to seven equal parts.
- 2.Construct a Right-angled Triangle ABC, having its hypotenuse AC = 60 mm and altitude AB = 40 mm.
- 3. Consruct an Isosceles Triangle QPR, having each of its sides = 50mm and base = 40 mm.
- 4. Construct an equilateral triangle 0f 40 mm sides.
- 5. Construct a Triangle ABC, having its base BC=50mm, side AB=40mm, side AC=60mm.
- 6. Construct a rectangle ABCD having its base AB = 60 mm and its side AD = 40 mm.
- 7.Construct a Trapezion or Kite ABCD, having its diagonal AC=50mm, its adjacent sides AD and AB each equal to 30mm and CD and CB equal to 40mm.

9.Construct a square of 50 mm sides.		
10.Construct a regular hexagon on a base line of 40 mm.		
MULTIPLE CHOICE QUESTIONS		
1.In Metric system the standard-length measure is		
a) Yard		
b) Meter		
c)Centimeter		
d)None of the above		
2.Continuous thick line is used to denote		
a) Visible edges		
b) Axis line		
c)Leader line		
d)Projection line		

8.Construct a regular pentagon with base side = 30 mm.

3.The axis of a circle is denoted by which type of lines		
a) Continuous thick lines		
b) Centre line		
c)Continuous thin lines		
d)Double dashed lines		
4.Mini drafter is a combination of		
a) Scale and compass		
b) compass and divider		
c) scale and protractor		
d) Protractor and compass		
5.In an equilateral triangle all angles are equal to		
a) 45 degree		
b)60 degree		
c)90 degree		
d)None of the above		
6.The size of a A2 drawing sheet is		
a)841 x 1189		
b) 594 x 841		

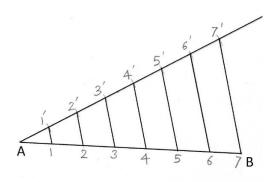
- c) 420 x 594
- d)210 x 297

<u>Answers – Multiple Choice Questions</u>

- 1.b) Meter
- 2.a) Visible edges
- 3.b) Centre lines
- 4.c) scale and protractor
- 5.b) 60 degree
- 6.c)420 x 594

<u>Answers – Drawings with Hint points</u>

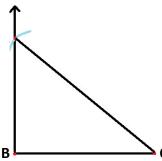
1.



(Hint: Using Copy angle method)

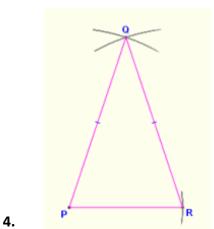
2.

Α

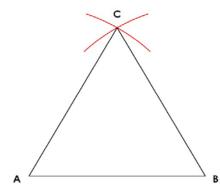


► C (Hint: construct perpendicular from B AB = 40, AC = 60)

3.

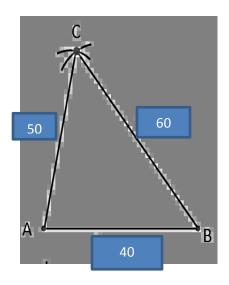


(Hint: QP = QR = 50 mm, PR = 40 mm)



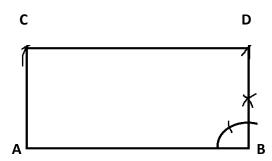
^B (Hint: CA = AB = CB = 40 mm)

5.



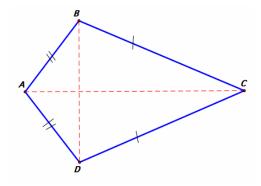
(Hint: AB = 40, AC = 50, BC = 60, using compass)

6.



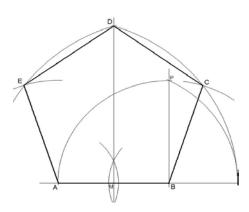
(Hint: AB = 60, AD = 40, Construct perpendicular from both points A and B).

7.



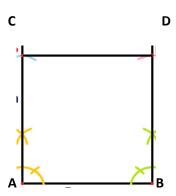
(Hint: Diagonal AC = 50, AB = AB = 30, CD = CB = 40mm)

8.



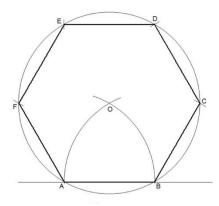
(Hint: Construct a regular pentagon on a base line AB = 30 mm, using compass)

9.



(Hint: Construct perpendiculars from points A and B, take equal measurement of 40 mm and cut arcs to get a square).

10.



(Hint: On a base line cut arcs equally with 30 mm and draw a circle with center O and radius OA, cut arcs equally on the circle, join all points will get a hexagon).

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